

REMARKS

Claims 1, 3-11, and 13-37 are pending. Claim 10 has been amended. New claims 31-37 have been added. Various errors in structures in the Specification have been corrected. No new matter has been added.

Importantly, any claim amendments and/or cancellations made herein should not be construed to be an acquiescence to any of the claim rejections. Rather, these actions are being made solely to expedite the prosecution of the above-identified application. The Applicants expressly reserve the right to further prosecute the same or similar claims in subsequent patent applications claiming the benefit of priority to the instant application (35 USC § 120).

Correction of Typographical Errors in the Examples

Example 22

The structure in Example 22 has been amended to correct a typographical error. The phosphate moiety on the inositol ring (bottom-right substituted cyclohexane ring, as drawn) has been redrawn to clarify that the group is not a phosphate triester, but a phosphate diester anion. Explicit support for the amendment can be found in the systematic name given for the compound in Example 22. Moreover, the experimental procedure therein would be understood by one of ordinary skill in the art of organic chemistry to result in hydrolysis of the intermediate methyl phosphate ester derived from methyl dichlorophosphate. Therefore, no new matter has been added.

Example 23

The structure in Example 23 has been amended to correct a typographical error. The phosphate moiety on the inositol ring (bottom-right substituted cyclohexane ring, as drawn) has been redrawn to clarify that the group is not a phosphate triester, but a phosphate diester anion. Explicit support for the amendment can be found in the systematic name given for the compound in Example 23. Moreover, the experimental procedure therein would be understood by one of ordinary skill in the art of organic chemistry to result in no change to phosphate moiety present

in the starting material (i.e., the product of Example 22). Therefore, no new matter has been added.

Example 24

The structure in Example 24 has been amended to correct two typographical errors. The phosphate moieties on the inositol ring (bottom-right substituted cyclohexane ring, as drawn) and attached to position six of one of the alpha-mannose residues have been redrawn to clarify that the groups are not phosphate triesters, but phosphate diester anions. Explicit support for the amendment can be found in the systematic name given for the compound in Example 24. Moreover, the experimental procedure therein would be understood by one of ordinary skill in the art of organic chemistry to result in no change to phosphate moiety present in the starting material (i.e., the product of Example 23) and to produce a phosphate anion from the phosphate ester attached to position six of one of the alpha-mannose residues. Therefore, no new matter has been added.

Correction of Typographical Errors in the Claims

Claim 10

All four of the final structures in claim 10 have been amended to correct typographical errors. In each of the structures the phosphate moiety on the inositol ring (bottom-right substituted cyclohexane ring, as drawn) has been redrawn to clarify that the group is not a phosphate triester, but a phosphate diester anion. Explicit support for these amendments can be found in the systematic names given for the claimed compounds in Examples 22-24. Moreover, with respect to Example 22, the experimental procedure therein would be understood by one of ordinary skill in the art of organic chemistry to result in hydrolysis of the intermediate methyl phosphate ester derived from methyl dichlorophosphate.

The third-to-last compound in claim 10 has also been amended to correct a forbidden pentavalent carbon in the phosphate ester attached to position six of one of the alpha-mannose residues. Specifically, “-O(CH₃)₂CN” has been corrected to be “-O(CH₂)₂CN”. This change is explicitly supported by the systematic name and structural drawing for the claimed compound in

Example 23. Moreover, the experimental procedure therein would be understood by one of ordinary skill in the art of organic chemistry to result in a product with the corrected structure.

The second-to-last compound in claim 10 has also been amended to clarify that the phosphate moiety attached to position six of one of the alpha-mannose residues is not a phosphate triester, but a phosphate diester anion. Further, this compound has been corrected to replace “-O(CH₂)₂NHNH₂⁺” with “-O(CH₂)₂NH₃⁺”. Explicit support for the amendments can be found in the structure (change to amine) and systematic name (changes to amine and phosphate) given for the claimed compound in Example 24. Moreover, the experimental procedure therein would be understood by one of ordinary skill in the art of organic chemistry to result in a product with the corrected structure.

The last compound in claim 10 has also been amended to clarify that the phosphate moiety attached to position six of one of the alpha-mannose residues is not a phosphate triester, but a phosphate diester anion. Explicit support for the amendment can be found in the systematic name given for the claimed compound in Example 24. Moreover, the experimental procedure therein would be understood by one of ordinary skill in the art of organic chemistry to result in a product with the corrected structure. Further, this compound has been corrected to identify the tethered protein as “KLH” (i.e., keyhole limpet hemocyanine); explicit support for this correction can be found in Scheme 4.9, on page 15 of the underlying PCT application. Lastly, this compound has also been amended to correct the five-membered ring in the tether to the KLH; a forbidden trivalent hydrogen has been replaced with a nitrogen. Explicit support for this correction can also be found in Scheme 4.9, on page 15 of the underlying PCT application.

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The Applicants believe they have provided for any required fees in connection with the filing of this paper. Nevertheless, the Director is hereby authorized to charge any additional required fee to our Deposit Account, **06-1448**, Reference **MTV-055.01**.

CONCLUSION

In view of the above remarks, it is believed that the pending claims are in condition for allowance. The Applicants respectfully request reconsideration and withdrawal of the pending rejections. The Applicants thank the Examiner for careful consideration of the present case. If a telephone conversation with the Applicants' Attorney would expedite prosecution of the above-identified application, the Examiner is urged to contact the undersigned.

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Respectfully submitted,

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